

20021113.qrp v02_n739.qrl.20021113

Date: Wed, 13 Nov 2002 19:03:13 EST
From: qrp-l@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: QRP-L digest 2739

QRP-L Digest 2739

Topics covered in this issue include:

- 1) [140000] The Evil ARRL was RE: December QST
by "Emmerson Bigguns" <n8ie@woh.rr.com>
- 2) [140001] FS: Yaesu FT-817 re-post
by "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
- 3) [140002] Re: grouchy? you aint seen nothin
by "Dave Martin" <k2zu@seanet.com>
- 4) [140003] Rock Mite QSL from ZL QSO spanning 8485 miles
by <jmbrown@edge.net>
- 5) [140004] FD Score N6WG
by "Bob Tellefsen" <n6wg@earthlink.net>
- 6) [140005] Rock Mite
by "Richard Johnson" <richard_johnson@credence.com>
- 7) [140006] FS QRO rig
by IamSF5@aol.com
- 8) [140007] Re: ATU's and field antennas---matching
by Monty N5FC <n5fc@io.com>
- 9) [140008] No Excuses question
by "TC Dufresne" <tdufresne@neb.rr.com>
- 10) [140009] amplifier electronics question
by Chris Howard <chris@yipypap.com>
- 11) [140010] Re: Argonaut V message from TenTec
by Ade Weiss W0RSP <adeweiss@sd.value.net>
- 12) [140011] Re: Ladder line question.
by Ade Weiss W0RSP <adeweiss@sd.value.net>
- 13) [140012] SideKick Builders Report
by "Doug Hendricks" <ki6ds@dospalos.org>
- 14) [140013] San Jose this weekend
by n8yg@rochester.rr.com
- 15) [140014] Re: Rock Mite
by Chuck Carpenter <w5usj@9plus.net>
- 16) [140015] NETXQRP Club Meeting, Saturday 16 November
by Chuck Carpenter <w5usj@9plus.net>
- 17) [140016] Re: Two more states fall all QRP
by Joseph Mikuckis <k3chp@erols.com>
- 18) [140017] Re: No Excuses question
by Alex <kr1st@amsat.org>
- 19) [140018] Toroid cores from PC PSUs

- by Alex <kr1st@amsat.org>
- 20) [140019] QRP Definition - Input vs Output?
by Patrick Gardella <pgardella@yahoo.com>
- 21) [140020] Re: Argonaut V message from TenTec
by <stanw@toxosor.com>
- 22) [140021] Code Improvements
by JLeRoy@automationdirect.com
- 23) [140022] Power Meter
by "Richard Johnson" <richard_johnson@credence.com>
- 24) [140023] Re: Argonaut V message from TenTec
by "Frank Emens" <femens@hiwaay.net>
- 25) [140024] Re: CW Practice Ideas
by "Walter Amos" <waltk8cvamosqrp@earthlink.net>
- 26) [140025] Re: San Jose this weekend
by Johnathan Corgan <jcorgan@aeinet.com>
- 27) [140026] Re: QRP Definition - Input vs Output?
by Chuck Carpenter <w5usj@9plus.net>
- 28) [140027] tiny micros need tiny I/O
by David Hinerman <WD8CIV@worldnet.att.net>
- 29) [140028] Re: QRP Definition - Input vs Output?
by "Larry Spinner" <n2icz@hotmail.com>
- 30) [140029] FS/T: K2 or to trade for various TT gear
by k7gt@attbi.com
- 31) [140030] Solar Blues
by "Karl F. Larsen" <k5di@zianet.com>
- 32) [140031] Re: grouchy? you aint seen nothin
by "Walter Amos" <waltk8cvamosqrp@earthlink.net>
- 33) [140032] Re: Argonaut V message from TenTec
by Dave Hottell <hottell@gulftel.com>
- 34) [140033] OT(somewhat): Callsign confusion reigns at starting gun in SS/CW
by k7gt@attbi.com
- 35) [140034] Four State QRP Group Wednesday Warble
by "David Bixler" <qrp@netins.net>
- 36) [140035] RE: Code Improvements
by Mark Danner <MarkD@mfwfwi.org>
- 37) [140036] Re: QRP Definition - Input vs Output?
by bob evinger <wd9eka@evinger.com>
- 38) [140037] Re: QRP Definition - Input vs Output?
by W2AGN <w2agn@w2agn.net>
- 39) [140038] Re: Power Meter
by "Jim Kortge, K8IQY" <jokortge@prodigy.net>
- 40) [140039] Re: Code Improvements
by <igeq100@iupui.edu>
- 41) [140040] Re: San Jose this weekend
by "Richard Brummer, K2JQ" <k2jq@rcn.com>
- 42) [140041] Re: tiny micros need tiny I/O
by "Leon Heller" <leon_heller@hotmail.com>
- 43) [140042] RE: TS-830S Radio

by "KD5NWA" <KD5NWA@mbayona.com>
44) [140043] quarterly
by hamjoel@juno.com
45) [140044] Fox: revised log N7CQR
by Dan Presley <talljazz@teleport.com>
46) [140045] Re: grouchy? you aint seen nothin
by W2AGN <w2agn@w2agn.net>
47) [140046] Four State QRP Group Meeting on Saturday
by "David Bixler" <qrp@netins.net>
48) [140047] FOX; Tomorrow
by "Jim NOUR" <n0ur@attbi.com>
49) [140048] Code Improvements - Responce
by "Charles Mabbott" <aa8vs@msn.com>
50) [140049] Re: tiny micros need tiny I/O
by "Mike Yetsko" <myetsko@insydesw.com>
51) [140050] Re: Argonaut V message from TenTec
by W2AGN <w2agn@w2agn.net>
52) [140051] Re: QRP Definition - Input vs Output?
by "Mike Yetsko" <myetsko@insydesw.com>
53) [140052] Distinguished Visitor from the East will be in San Jose Saturday.
by "Doug Hendricks" <ki6ds@dph.dpol.net>
54) [140053] Re: tiny micros need tiny I/O
by "George Heron N2APB" <n2apb@erols.com>
55) [140054] No excuses TX... hmmm
by Chris Cartwright <ccart@phideaux.com>
56) [140055] Re: QRP Definition - Input vs Output?
by Garey Barrell <k4oah@mindspring.com>
57) [140056] Re: No excuses TX... hmmm
by David Hinerman <WD8CIV@worldnet.att.net>
58) [140057] Re: tiny micros need tiny I/O
by David Hinerman <WD8CIV@worldnet.att.net>
59) [140058] Re: OT Linux Sendmail
by Chris Trask <ctrask@primenet.com>
60) [140059] Re: OT Linux Sendmail
by Chris Trask <ctrask@primenet.com>
61) [140060] Re: tiny micros need tiny I/O
by "Brice D. Hornback" <bdh@cyberbound.net>
62) [140061] Re: Solar Blues
by sjolin@swbell.net
63) [140062] Re: No excuses TX... hmmm
by Chris Cartwright <ccart@phideaux.com>
64) [140063] Re: QRP Definition - Input vs Output?
by "Russ Hines" <wb8zcc@one.net>
65) [140064] Re: grouchy? you aint seen nothin
by Tom Feeny <tfeeny@comcast.net>
66) [140065] Re: QRP Definition - Input vs Output?
by W2AGN <w2agn@w2agn.net>
67) [140066] Re: Solar Blues

by "Karl F. Larsen" <k5di@zianet.com>
68) [140067] Neat Article About HF Email
by "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
69) [140068] Re: Solar Blues
by W2AGN <w2agn@w2agn.net>
70) [140069] Re: FOX; Tomorrow
by "Karl F. Larsen" <k5di@zianet.com>
71) [140070] HB: Antenna Analyzer bridge
by Steven Weber <kd1jv@moose.ncia.net>
72) [140071] Re: QRP Definition - Input vs Output?
by Garey Barrell <k4oah@mindspring.com>
73) [140072] Re: grouchy? you aint seen nothin
by W2AGN <w2agn@w2agn.net>
74) [140073] Contest: FD Congrats to N0UR!
by Brian Kassel <K7RE@arrl.net>

Date: Tue, 12 Nov 2002 18:51:58 -0500
From: "Emmerson Bigguns" <n8ie@woh.rr.com>
To: "QRP-1" <qrp-1@lehigh.edu>
Subject: [140000] The Evil ARRL was RE: December QST
Message-ID: <MMEDLKDLONJOAIGICDJAMEHLDIAA.n8ie@woh.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Well Paul your talking about the evil that is the ARRL. :-)
Most folks treat the ARRL like the Government, they hate it until something
directly hits them at home, then it's "SAVE ME, SAVE ME".

I thought it is a good issue and the little 40 meter rig begs to be built.
I'm gonna swing by our local craft store and see if they carry the bobbins
they talk about.

Also the article on gamma matching is good reading.

72, oo
Dan, N8IE
FPqrp #-6, QRP-1 #1404, FISTS #4985

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
Paul Womble
Sent: Tuesday, November 12, 2002 5:46 PM
To: Low Power Amateur Radio Discussion
Subject: Re: December QST

Planned giving is a very important part of any non-profit organization's fund raising plan.

I work for a non-profit and we have been saved the last three years by legacies and bequests. Many different economic factors over the last couple of years have caused donors to decrease their contributions.

Paul K4FB

W2AGN wrote:

> first it was the "Diamond Club" for
> donations, now I see they have a "Legacy Circle" for those who want to
> make a bequest to the ARRL in their will.

Incoming mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.408 / Virus Database: 230 - Release Date: 10/24/2002

Outgoing mail is certified Virus Free.
Checked by AVG anti-virus system (<http://www.grisoft.com>).
Version: 6.0.408 / Virus Database: 230 - Release Date: 10/24/2002

Date: Tue, 12 Nov 2002 19:12:15 -0500 (EST)
From: "Scott Rosenfeld [N7JI]" <ham@w3eax.umd.edu>
To: qrp-l <qrp-l@lehigh.edu>, <eax@w3eax.umd.edu>,
Laurel ARC <larc-l@webtrek.com>
Subject: [140001] FS: Yaesu FT-817 re-post
Message-ID: <Pine.LNX.4.44.0211121911130.15131-100000@w3eax.umd.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Someone had bought it, but then decided to un-buy it. Therefore it's again for sale.

For sale: like-new, lightly used Yaesu FT-817 QRP rig.

HF/6/2/440, all-mode, 5 watts.

Comes with all standard accessories: carrying strap, 6/2/440 whip set, manual, up/down hand mic.

No mods.

Ended up with two of them, need to sell one (not they having a spare is bad or anything)...

\$630 new, asking \$525 plus ship (should run under \$10 to CONUS).

This is about what they end up selling for on Ebay (but I don't feel like having an auction).

E-mail or call if interested.

Thanks,

Scott N7JI

--

Scott Rosenfeld ARS N7JI
541-684-9970 Eugene, OR Land o' much rain
If you find me on the air, I'm probably in my car
ham@w3eax.umd.edu <http://w3eax.umd.edu/~ham>

Date: Tue, 12 Nov 2002 16:40:05 -0800
From: "Dave Martin" <k2zu@seanet.com>
To: "qrp-l" <qrp-l@lehigh.edu>
Subject: [140002] Re: grouchy? you aint seen nothin
Message-ID: <000301c28aad\$36aa4920\$19a32640@davemartin>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Friendly! You must not read this list very often. Be careful not to get any venom on you.
Dave K2ZU

Date: Tue, 12 Nov 2002 20:35:15 -0500
From: <jmbrown@edge.net>
To: qrp-1@lehigh.edu
Subject: [140003] Rock Mite QSL from ZL QSO spanning 8485 miles
Message-ID: <20021113013515.OPNZ4223.fl-webmail01@fl-webmail01>
MIME-Version: 1.0
Content-Type: text/plain; charset=8859_1
Content-Transfer-Encoding: 7bit

Well gang,

Another Rock Mite high.

Received QSL from Alex, ZL4IE in Dunedin, New Zealand
today confirming QSO using my Rock Mite 20/500 mw xcvr...
8485 miles from TN.

Alex and I had 20 minute contact in September.
Alex is 91 years old and hamming since 1925....

Alex used only homebrew equipment for
over 30 years of his 77 year ham career.

And his penmanship is great- I enjoyed his long
note.

Jerry N4EO
Columbia, TN (not in tornado alley this week)

Date: Tue, 12 Nov 2002 17:59:34 -0800
From: "Bob Tellefsen" <n6wg@earthlink.net>
To: <qrp-1@lehigh.edu>
Subject: [140004] FD Score N6WG
Message-ID: <MABBJOEABOILMKCJCLFCCEIFDLAA.n6wg@earthlink.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Well, once again, the ol' N6WG juggernaut came thundering through the FD
pack
to cross the finish line first again in class 8A Battery QRP. That's 17
years
in a row now for the ol' machine, and it's still humming. Shows what a

finely
crafted and tuned machine can do.
It's in the barn now, up on blocks until next FD. Hope to work you all
again,
next time we fire up the ol' beast.
73, Bob N6WG
for the Alameda County Radio Club

Date: Tue, 12 Nov 2002 18:18:33 -0800
From: "Richard Johnson" <richard_johnson@credence.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140005] Rock Mite
Message-ID: <3DD1B679.97DEE140@credence.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Rock Mite Users:

I have read much on the list about the Rockmite CQs going around the
world and obviously to me you all are having fun with the machine.

So what is special about the design? That is if i had a look at the
schematic would it reveal great design secrets?
Is it that it is small and a wonder what can be done with such a small
package?
Or is it just fun seeing how much can be done with a power, size, tuning
limited radio?

I am not against it, just curious why it's so fun for you.

Cheers,
rich

Date: Tue, 12 Nov 2002 22:18:42 EST
From: IamSF5@aol.com
To: qrp-l@lehigh.edu
Subject: [140006] FS QRO rig
Message-ID: <ae.30d0432d.2b031e92@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Hi Gang,
I have for sale a FT 747 GX
0-100 watts.
Condition is about a 9.5.
Has the UP DOWN MIC with the scan button.
The PIC I uploaded to INRAD confirmed the rig has a 2.4 SSB filter in it.
I also have a 500 hz CW filter installed.
160 to 10 meters and general coverage RX.
I did not do the mod to open up the rig for TX.
It's as it is from the factory.
The rig has one small bug.
When sending CW with the narrow button pushed in the side tone has a popping sound.
It does not do this when the narrow button is out.
I have three kits i'm building and no time to dig into it.
Audio reports are excellent coming in and going out.
The rig has been sent out for a full alignment about one year ago.
I use it mobile/portable CW with a mobile whip on a tripod and have never run the rig QRO except for testing.
I have the SSB,AM and AM filters installed but the rig does not have the FM option unit.
This is a perfect rig for QRP to QRO and tips the scale at only 7 pounds.
Thre final section is isolated and inside of an aluminum box on the left that runs from the from of the rig to the rear.
It has a fan that goes on if you run 75 watts or more or do some testing at lower power with long key downs.
Except for the bug mentioned above it's near perfect and I can send all the pictures you want.
Asking \$325.00 shipped to your door
Bob
AF2Q
609-530-0453

Date: Tue, 12 Nov 2002 21:42:45 -0600
From: Monty N5FC <n5fc@io.com>
To: qrp-1@lehigh.edu, ARDUJENSKI@aol.com
Subject: [140007] Re: ATU's and field antennas--matching
Message-ID: <5.1.0.14.1.20021112213254.026dd570@mail.io.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Alan:

When portable, I frequently use a 35 ft wire (more or less vertical) with
(4) 32 ft radials and (2) 16 ft radials. On 20 meters, that's a

half-wave. If I use a 1:4 current balun mounted on the back of the K1, and bring the counterpoise and the antenna directly to the balun, the K1's ATU does fine with it on 20. On 40/30/15, I feed the antenna direct into a BNC-to-Binding-post adapter mounted on the K1.

For info on homebrewing QRP Altoids-sized baluns, see my "gizmos" web page at:

<http://www.io.com/~n5fc/gizmo.htm>

72,
monty N5FC

At 19:03 11/12/2002 -0500, you wrote:

>Date: Tue, 12 Nov 2002 00:52:32 EST

>From: ARDUJENSKI@aol.com

>To: qrp-1@lehigh.edu

>Subject: [139943] ATU's and field antennas--matching

>Message-ID: <163.16ebd280.2b01f120@aol.com>

>MIME-Version: 1.0

>Content-Type: text/plain; charset="US-ASCII"

>Content-Transfer-Encoding: 7bit

>

>I would like some feedback regarding the use of automatic tuners (ATUs) with
>field antennas. It appears most ATU's are limited to matching a maximum load
>of 800 ohms (or thereabouts). It appears some configurations such as being
>at 1/2wl can have impedance values of 2000 to 3000 ohms (verticals, endfed
>wires, and Inverted -Ls).

>

>Have any of you experienced problems with field matches with Automatic tuning
>units such as the LDG or SGC or with the Elecraft in these situations?

>

>Alan KB7MBI in Woodinville, WA

>FISTS 5702 Proud member of ARRL

>___ ___ ___ ___ DIT DIT

Monty Northrup, N5FC

Austin, Texas

e-mail: n5fc@io.com

web page (ham radio): <http://www.io.com/~n5fc>

web page (home): <http://www.io.com/~maddog>

Date: Wed, 13 Nov 2002 04:05:41 -0000

From: "TC Dufresne" <tdufresne@neb.rr.com>

To: <qrp-1@lehigh.edu>

Cc: <dmetzger@monroe.lib.mi.us>
Subject: [140008] No Excuses question
Message-ID: <00d301c28ac9\$eebe3e60\$d3b61c41@neb.rr.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I would like to see the circuit board pattern for the homebrew QRP rig featured in QST magazine. The address given gets me "This page cannot be found".....

<http://www.arrl.org/qst-binaries/noExcusesXcvr1202.pdf>

Is it the correct address?

Tom

KC0GXX

Date: Tue, 12 Nov 2002 22:32:09 -0700
From: Chris Howard <chris@yipyp.com>
To: qrp-1@lehigh.edu
Subject: [140009] amplifier electronics question
Message-ID: <20021112223209.28677@amos.estprk.co.charter.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I was surfing the web and saw a write-up by Ian White, G3SEK, from 10/97 QEX entitled "Power and Protection for Modern Tetrodes.

In that article Mr. White emphasizes the importance of having a well regulated screen grid voltage on a power tetrode amp to minimize IMD.

I started to wonder what the equivalent issue would be in a solid state amp.

I think it means that you would have to have well regulated current in an amp, like a gate in a mosfet power amp(?)

So I wanted to ask some of my better educated/experienced electronics mentors (this is you I'm buttering up) if my thinking is on the right track.

I don't know much about how to regulate current. I guess that is the subject of my next web surfing session. I don't recall seeing any current regulation in a solid state amp, but then

I don't know what I'm looking for either.

Some direct questions:

- 1) is there a solid state equivalent to a tetrode?
- 2) if so, what would the screen grid translate into?
- 3) do power amps using that kind of device regularly employ regulated current? if not, why?
- 4) does any of this make sense for simplifying the design of a QRP level power amp?, particularly a reduction in need for multi-pole output filtering?

If any of you elmers would like to educate me...

--

Chris Howard
chris@yipyp.com
current Estes Park weather -- <http://www.yipyp.com/wscurrent.html>

kc0atc
Estes Park, Colorado USA

Date: Thu, 14 Nov 2002 00:19:05 -0600
From: Ade Weiss W0RSP <adeweiss@sd.value.net>
To: qrp-l@lehigh.edu
Subject: [140010] Re: Argonaut V message from TenTec
Message-ID: <04KJJE541E0WSATQ1Y9XRECVSJHLK.3dd34059@aweiss>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

Hi all:

This thread is discouraging. TenTec says it solicited input from QRP'rs, and then produced a rig on the basis of that input. I believe them.

I applaud them for doing their homework. I'm wondering how many of the critics in this thread responded to the TenTec request for input?

TenTec, remember, risked its entry into the ham radio market by producing the first -- and one of the best, for a long time -- QRP transceivers. That was a really "looney" decision. But the reason a lot of us are here right now is that TenTec validated QRP when no one else either cared or thought it was anything more than, as Doug DeMaw used to say, "a lunatic fringe".

TenTec put bucks behind the QRP cause. And it has remained true to that original daring commitment.

Dave Fifield can correct me on this, but wasn't there a similar thread about the "Red Hot Radio" when he introduced it? "Why red?"

the thread ran.

Of course, everyone has a constitutional right to demand the exact kind of toy he/she wants. But it is immature to moan and groan when he/she doesn't get it.

Again, I applaud TenTec in its renewed risk in the QRP market.

72, Ade W0RSP

Date: Thu, 14 Nov 2002 00:35:59 -0600
From: Ade Weiss W0RSP <adeweiss@sd.value.net>
To: qrp-l@lehigh.edu
Subject: [140011] Re: Ladder line question.
Message-ID: <0MQOK73764Z1Z71IFTGAIDTP62EAE0.3dd3444f@aweiss>
MIME-Version: 1.0
Content-Type: text/plain; charset="windows-1252"

Hi Kelly:

Tom AC7A's post pretty covers the issues involved.

My experience is that sometimes a trade-off is necessary. Knowing that the physical proximity of the ladderline to the shingles on my house has some effect, and a large effect when buried in 2-ft of snow, I was faced with the decision: put up my 2nd 30m dipole to give me the NW/SE coverage I needed and accept the losses in wet and snowy times, or, have no coverage at all. I opted for the first option and do not regret it. I still have worked DX on 30m with the line either wet or buried in 2-ft of snow. Now, that causes a tremendous change in line characteristics, to be sure. The dry ZM-2 setting for a 1:1 SWR at the rig jumps to like 10:1 or something -- meters don't calibrate that high! But, the ZM-2 when readjusted will bring the SWR back down to 1:1. I would much prefer no change at all, but I get the coverage I need.

My other dipole NE/SW is fed by ladderline that drops vertically 40ft, and has a short run of about 18ft parallel to the ground and into the shack. That needs retuning also when wet (snow doesn't collect on it here -- wind) but nowhere near as much as the other dipole. In an ideal world, I wouldn't even be using dipoles!

So, although you know the limitations of your installation, you can choose to go with what you have, and if it works up to your expectations when dry, you just have to settle for that!

72, Ade W0RSP

Date: Tue, 12 Nov 2002 23:19:18 -0800
From: "Doug Hendricks" <ki6ds@dospalos.org>
To: "qrp-1" <qrp-1@lehigh.edu>
Subject: [140012] SideKick Builders Report
Message-ID: <008a01c28ae4\$fc9a1c50\$1fdbd7a8@DOUG>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, Mike Schettler sent this to me today. He has been trying to post this to the list, but not having any luck. Looks like Mike was the first to finish his SideKick. Hey, can we get Mike and Jeff to take some digital pics and sent them to JayBob so he can post them to the website, a la Rod Cerkoney's Rockmite Pages, but this one would be dedicated to the SideKick. How about it??? Send the SideKick photos to w5jay@alltel.net and if you haven't ordered your Manhattan style SideKick receiver kit from JayBob, send him an email asking him to reserve one for you (there are only 150 of them left). The cost is only \$34 postpaid. 72, Doug

Forwarded message from Mike Schettler:

Gang,
I picked up a Fort Smith SideKick receiver kit at Pacificon, and just finished it a couple of days ago. After checking with Jay Bromley W5JAY, I am offering a few comments based on my experience. Most of this is minor, but if you're new to kit building or Manhattan style construction, some of this may be helpful. I enjoyed building it and the SideKick is a welcome addition.

73

Mike Schettler WA6MER

"Fort Smith SideKick Receiver Builder Comments"
Corrections to the Manual

1) Sheet 2, Step 2, (b), under 3 for V+,
the third line says: To the right of D6 pad

Should read: To the right of R6 pad

2) Sheet 2, Step 2, (b), under 5 for Vr,
the fifth line says: To the right of U3 pin 8
Should read: Above U3 pin 8

3) Sheet 5, Step 4, (b),
D4 location says: 1N4148 Cathode to R2/R2 pad
Should read: 1N4148 Cathode to R2/R7 pad

4) The schematic diagram shows C1 as a 68 pF capacitor. The assembly directions on sheet 5, step 5 say C1 is a 47 pF capacitor. The value in my kit was 47 pF, and the front end resonant circuit formed by T1 and C1 peaked right up on 7040 kHz with the 47pF.

Assembly Suggestions:

1) The manual on sheet 1, step 1 describes the Manhattan pad sizes. The smallest pads are called out as being 1/8 inch by 3/16 inch. I found this to be too large almost everywhere on the board. For the smallest pads, I used a size of 1/8 inch by 3/32 inch. This is the same size as Jim Kortge K8IQY suggests in his 2N2/40 article in QRPP.

2) I prepared a 1:1 scale template using a draw program (whatever you have on your computer). After printing out a couple of trials, I found that my template matched the layout fairly closely. Then I used an Xacto knife to cut out the larger pads and placed the template over the bare board. This helped to locate the large Manhattan pads prior to gluing. Locating the small pads like the layout suggests then becomes much easier.

3) The hole drilled in the board to the right of the R6 pad (for a V+ wire) must accomodate 2 of the dc supply wires. Check your wire gauge and drill size to see if this hole should be larger. Likewise, the hole drilled in the board to the right of U1 pin 8 (for a Vr wire) must accomodate 2 of the dc supply wires. Check your wire gauge and drill size to see if this hole should be larger.

4) Be sure to check your parts kit against the schematic. I had a 0.022 uF capacitor instead of the 0.0022 uF for C26.

5) If your SK wants to tune below the edge of the 40 meter band before adding the VFO capacitor C7, you will have to remove a turn or 2 on the L1 VFO toroid. (I had to remove 2 turns to bring the tuning range up into the band.)

Good luck!

Date: Wed, 13 Nov 2002 06:25:05 -500
From: n8yg@rochester.rr.com
To: qrp-l@lehigh.edu
Subject: [140013] San Jose this weekend
Message-ID: <3dd2369137dc63.01619744@rochester.rr.com>
MIME-version: 1.0
Content-type: text/plain; charset="iso-8859-1"

Any ham activities in San Jose this weekend?
It seems I will be stuck here one way or the other.
73 Brad N8YG

Date: Wed, 13 Nov 2002 05:31:04 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: richard_johnson@credence.com,
 "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140014] Re: Rock Mite
Message-ID: <3.0.2.32.20021113053104.007c16a0@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Richard,

>Is it that it is small and a wonder what can be done with such a small
>package?
>Or is it just fun seeing how much can be done with a power, size, tuning
>limited radio?

I'd say it's all of this and more. It's easy to modify too and use it on
other bands. So far contacts have been made on 80, 40, 30, 20 and 15
meters using modified 40 and 20 meter Rock-Mites.

Email Alt: w5usj@arrl.net

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Wed, 13 Nov 2002 05:46:24 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: qrp-l@lehigh.edu, George Baker <w5yr@att.net>,
 Lew Paceley <lew@paceley.com>,

Subject: [140015] NETXQRP Club Meeting, Saturday 16 November
Message-ID: <3.0.2.32.20021113054624.007bf900@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

QRPers,

All who are interested are invited to attend.

Saturday, November 16, 2002 -- 1:00 to 3:00 pm (or so)

Los Hermanos
1500 W. Moore Ave (Intrastate 80)
Terrell, TX 75160
972-524-5580

Directions:
On the North side of I-80 East of the intersection of 205 and 148. 205 goes North to Rockwall. 148 goes South back across I-20.

If you have a favorite QRP something you'd like to bring along, please do. Each month we have a "Door Prize" drawing. Bring an item to share for the door prize table. A drawing is held at the end of the meeting to *redistribute* the wealth. Everyone attending gets a chance at one of the prizes. Come join the fun!

Email Alt: w5usj@arrl.net

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Tue, 12 Nov 2002 07:34:17 -0500
From: Joseph Mikuckis <k3chp@erols.com>
To: lejek@erols.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140016] Re: Two more states fall all QRP
Message-ID: <3DD0F549.9954F627@erols.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Larry Cahoon wrote:

> It was a good weekend.
>
> NF0N/M, Mike was out running SD counties. I managed to work him 15
> times. Who says SD is rare? In the process I picked up my last three
> counties there to finish up the state all QRP - average power to work a SD
> county - 1.69 watts. Oh every QSO with Mike was at 500 mWatts. And as a
> side benefit Mike usually runs QRP/M.
>
> Then about half an hour after finishing up SD, Charlie, W0RRY/M makes it to
> my last in OK - Tillman county. It took 5 watts to work him. Average
> power needed to work an OK county 870 mWatts.
>
> With 3007 counties worked QRP, now I just have to get the last 70 counties
> I need.
>
> 73 de Larry.....WD3P in MD
> <http://www.wd3p.net/>

This is really fantastic, Larry! Keep us posted on your progress.

Joe, K3CHP
Frederica, DE

Date: Wed, 13 Nov 2002 08:21:29 -0500
From: Alex <kr1st@amsat.org>
To: tdufresne@neb.rr.com
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140017] Re: No Excuses question
Message-ID: <3DD251D9.BFC25308@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

I think it's supposed to be on this page:

<http://www.arrl.org/files/qst/qst-binaries/index.htm>

It's not on there. However, near the top is an email address where you can write to for problems. It says it's updated on 10/11/2002.

Hope this helps.

73,
--Alex KR1ST

<http://www.kr1st.com>

TC Dufresne wrote:

>
> I would like to see the circuit board pattern for the homebrew QRP rig
> featured in QST magazine. The address given gets me "This page cannot be
> found".....
> <http://www.arrl.org/qst-binaries/noExcusesXcvr1202.pdf>
> Is it the correct address?
> Tom
> KC0GXX

Date: Wed, 13 Nov 2002 08:30:44 -0500
From: Alex <kr1st@amsat.org>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140018] Toroid cores from PC PSUs
Message-ID: <3DD25404.24416277@amsat.org>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7bit

Hi there,

Last night I took a power supply unit from an old PC apart for some capacitors and I noticed that it has 6 toroids. Does anyone know if they can be used in tuners, baluns, for RFI suppression perhaps?

73,
--Alex KR1ST

<http://www.kr1st.com>

Date: Wed, 13 Nov 2002 05:56:25 -0800 (PST)
From: Patrick Gardella <pgardella@yahoo.com>
To: qrp-l <qrp-l@lehigh.edu>
Subject: [140019] QRP Definition - Input vs Output?
Message-ID: <20021113135625.24298.qmail@web40906.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

I've always worked under the definition of QRP as less than 5 watts at the

transmitter. But when
I was reading the ARRL Operating Manual, it says, for their awards, that QRP is
defined as 5 watts
output or 10 watts input. Input to what?

73,
Patrick N3EO

Do you Yahoo!?
U2 on LAUNCH - Exclusive greatest hits videos
<http://launch.yahoo.com/u2>

Date: Wed, 13 Nov 2002 08:22:54 -0600
From: <stanw@toxosor.com>
To: <qrp-l@lehigh.edu>
Subject: [140020] Re: Argonaut V message from TenTec
Message-ID: <000301c28b20\$2b412860\$0364010a@toxosor.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I agree with Ade TenTec should be applaud for the new Argonaut V. This is
my first TenTec radio and it is an excellent buy. It does everything they
say in their specifications and more. It a real fun radio to operate. It
has the looks and feel of a ham radio.

Try it and I think you will be well pleased with the performance. After
all they do have a 30 day return for no reason clause in their purchase
order. The IF DSP filtering and AGC are excellent and the digital mode
interface is easy.

de Stan AK0B

Date: Wed, 13 Nov 2002 09:54:57 -0500
From: JLeroy@automationdirect.com
To: qrp-l@lehigh.edu
Subject: [140021] Code Improvements
Message-ID: <CA45D4785D15D411B3B20060971D957101753CC1@srv-
mail01.automationdirect.com>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

Hello list,

George's posting brought to mind the fact that I too need to get my code speed back up after a fairly long time off the air. But along with that, I would like to master the use of an iambic keyer. I learned to send code with a straight key, then a bug. I've always used an iambic key, but use it as though it were a bug. What's the best way to make the switch?

73,

John W4JKL

Date: Wed, 13 Nov 2002 07:36:45 -0800
From: "Richard Johnson" <richard_johnson@credence.com>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140022] Power Meter
Message-ID: <3DD2718D.23AC503F@credence.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Group:

I need to measure ac power. That is i need a power reading AC meter. I have heard the HP 400EL AC analog meter is good (10Hz to 10MHz) The use is building and testing HF equipment.

The cost range for the HP 400EL, that i have found, is \$75 to \$275.

Any constructive comments please.

cheers,
rich

Date: Wed, 13 Nov 2002 09:14:24 -0600
From: "Frank Emens" <femens@hiwaay.net>
To: adeweiss@sd.value.net
Cc: qrp-l@lehigh.edu
Subject: [140023] Re: Argonaut V message from TenTec

Message-ID: <3DD217F0.28348.127D4A@localhost>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

Bravo, Ade. I'm extremely happy with my Argonaut V and prefer it over the K2. Why? The K2 ws designed for minimum power drain on receive. to get that goal, they sacrificed some on audio output and basic sensitivity.

It's a great little rig for portable operation, but, for operation at home on the desk with plenty of AC available, it can't beat the Argonaut. Having severely impaired hearing, I find the ample audio output capability of the rig great and I wouldn't trade it for anything currently available.

Date: Tue, 12 Nov 2002 15:52:50 -0000
From: "Walter Amos" <waltk8cvamosqrp@earthlink.net>
To: <jhisson1@columbus.rr.com>
Subject: [140024] Re: CW Practice Ideas
Message-ID: <000601c28a8c\$d59a29e0\$c855d943@waltamos>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

I have been deleting this as I sure don't need code practice
..... :-)

BUT

If you already know the code and just want to bump up your speed, work some contests!

OH, you hate contests!

WELL

Then just turn on the radio when you are in the shack or on the computer and find 7.020 or 7.030 and there are usually some dweebs there running high speed code. Just leave it on in the background and pay no attention to it. Soon you will be getting words and some times even sentences but the minute you concentrate on it, it will turn to gibberish. Keep at it and you will be

amazed the next time you operate everyone will seem to be much slower than you remember. IT WORKS try it, you might like it :-)

Walt Amos K8CV Royal Oak, MI.

----- Original Message -----

From: "Jason Hissong" <jhisson1@columbus.rr.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Tuesday, November 12, 2002 13:12
Subject: Re: CW Practice Ideas

> Thanks for the suggestions George... I can send pretty fast with a keyer and
> I think my fist is not bad either... it is just the decoding in my head...
I
> will keep chugging along with the CDs, computer programs, and on air copy.
> The idea of copying the traffic net is good as well...
>
> Thanks again everyone!
>
> Jason Hissong
> N8XE
> ----- Original Message -----
> From: "George Gingell" <k3tks@u1.abs.net>
> To: "QRP List" <qrp-l@Lehigh.EDU>
> Sent: Monday, November 11, 2002 7:11 PM
> Subject: CW Practice Ideas
>
> <snip>
>

Date: Wed, 13 Nov 2002 07:21:50 -0800
From: Johnathan Corgan <jcorgan@aeinet.com>
To: n8yg@rochester.rr.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140025] Re: San Jose this weekend
Message-ID: <E18BzKw-0004BW-00@hal>
Content-Type: text/plain;
charset="iso-8859-1"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit

On Friday 15 November 2002 00:27, n8yg@rochester.rr.com wrote:

> Any ham activities in San Jose this weekend?
> It seems I will be stuck here one way or the other.
> 73 Brad N8YG

There is the bi-monthly transmitter hunt on Saturday in the east bay, about a half hour drive from San Jose. This one is the "fox's choice" which usually means it's tough and will last all day. If you are new to t-hunting, ride-alongs are welcomed.

See: <http://www.thunt.org>

73

Johnathan, AE6HO

Date: Wed, 13 Nov 2002 10:15:15 -0600
From: Chuck Carpenter <w5usj@9plus.net>
To: pgardella@yahoo.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140026] Re: QRP Definition - Input vs Output?
Message-ID: <3.0.2.32.20021113101515.007be3d0@mail.9plus.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Patrick,

That's input to the final amplifier -- the output circuit that delivers the power to the antenna. For solid state use the final collector voltage times the final amp current to determine input power. For tubes it's final plate voltage times final amp current.

Email Alt: w5usj@arrl.net

Chuck Carpenter, W5USJ, Point, Rains Co., TX - EM22cv, NETXQRP #1
QRP-ARCI #5422, QRP-L #1306, QRPp-I #115, ARS #1280, SOC #57
Zombie #759, COG #11, 6 Club #201, NETXQRP <http://www.netxqrp.org>

Date: Wed, 13 Nov 2002 12:04:30 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [140027] tiny micros need tiny I/O
Message-ID: <5.1.1.6.1.20021113115945.00a6bb60@ipostoffice.worldnet.att.net>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

Folks,

With all the PIC, Atmel, and other microcontroller projects that have appeared in ham radio over the past few years, I thought this Idea for Design from Electronic Design magazine might come in handy.

It's a way of connecting a 16-key (4 x 4) keypad to a micro using only one input pin. A small oscillator's high and low times are determined by the key that is pressed, and the micro measures the duration of each to determine row & column.

<http://www.elecdesign.com/Articles/Index.cfm?ArticleID=17310&Extension=pdf>

It beats tying up 8 I/O lines, especially if you don't have that many.

Dave

A Real Programmer can write FORTRAN in any language.

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 13 Nov 2002 12:13:08 -0500
From: "Larry Spinner" <n2icz@hotmail.com>
To: pgardella@yahoo.com, qrp-1@lehigh.edu
Subject: [140028] Re: QRP Definition - Input vs Output?
Message-ID: <F100kpnFT9040U8TPFB0000ad65@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

I believe what you're referring to is 10 watts peak envelope power (PEP) on SSB. When I look up PEP it is defined as "the average power supplied to the antenna transmission line by a radio transmitter during one radiofrequency cycle at the crest of the modulation envelope taken under normal operating conditions". I don't know whether "supplied to the antenna transmission line" means input to the final stages of the transmitter or output of the transmitter. I still have a lot to learn :) There are better minds here that can answer that!

Overall, I think QRP is an accepted "operational" definition we've embraced

as 5 watts output on CW and 10 watts pep on SSB (because of SSB's inefficiencies (and I hate to use that word) compared to CW.

Effective radiated power is another animal too. I only work CW and I know that even though I average 4 to 5 watts output at my transmitter, my antenna is such that I probably only radiate from milliwatts to 3 watts tops...depending on the band...

Still learning here...

Larry N2ICZ

>I've always worked under the definition of QRP as less than 5 watts at the
>transmitter. But when
>I was reading the ARRL Operating Manual, it says, for their awards, that
>QRP is defined as 5 watts
>output or 10 watts input. Input to what?
>
>73,
>Patrick N3EO

Add photos to your e-mail with MSN 8. Get 2 months FREE*.
<http://join.msn.com/?page=features/featuredemail>

Date: Wed, 13 Nov 2002 17:26:18 +0000
From: k7gt@attbi.com
To: qrp-1@lehigh.edu, tentec@contesting.com
Subject: [140029] FS/T: K2 or to trade for various TT gear
Message-ID: <20021113172623.0IZR24365.rwcrmhc51.attbi.com@rwcrwbc72>

I am interested in either selling my K2 or trading it toward some specific gear for my station.

First the K2. Its s/n 157. It has the KAT2, KIO2, KNB2, 160m2RX, and KAF2. Sidetone

mod, some others I forget about. Also the Kenwood mike. The new price of the items in it tallies to something like \$1100. I built the rig myself with some debugging assists

from N6WG. The options were built by W1HYV. Its a solid rig but I'm moving to a simple K1 for my backpacking and portable QRP rig.

I would like to find to trade in some form any of the following:

Tentec 238 tuner
Tentec 253 autotuner
Tentec Hercules II linear
Tentec OmniVI/opt1 or 3

I also have a clean TT Corsair with a full set of filters and the desk mike.
\$395+s/CONUS.

73 GT

Allan K7GT

Pleasanton CA

Date: Wed, 13 Nov 2002 09:31:25 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-1@lehigh.edu
Subject: [140030] Solar Blues
Message-ID: <Pine.LNX.4.44.0211130928590.2044-100000@Bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Today the flux is going down, the A index is going up to about
20 and the k index will top at 5. We will be lucky to hear any fox in
New Mexico. The D layer absorbtion will be large.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Tue, 12 Nov 2002 15:35:57 -0000
From: "Walter Amos" <waltk8cvamosqrp@earthlink.net>
To: <chris@yipyap.com>
Subject: [140031] Re: grouchy? you aint seen nothin
Message-ID: <000501c28a8c\$d51d0aa0\$c855d943@waltamos>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

SHADES OF W20Y

----- Original Message -----

From: "Chris Howard" <chris@yipyp.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Tuesday, November 12, 2002 05:27
Subject: grouchy? you aint seen nothin

> Howdy all you QRP'ers.
>
> I know some of you all enjoy a certain curmodgenly status
> around this list. But I met a guy tonight on 7043
> that has you all beat hands down.
>
> As soon as I said I was QRP, he said QRP was a pain
> in the neck, signed off, moved a few kc's and started
> calling CQ again.
>
> His signal was booming in 599.
> He gave me a 479, as I recall.
>
> Said he only had 200 watts and a monoband yagi.
>
> Maybe we should take up a collection to have his
> ear wax removed ;-)
>
>
> --
> Chris Howard
> kc0atc

Date: Wed, 13 Nov 2002 11:38:54 -0600
From: Dave Hottell <hottell@gulftel.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [140032] Re: Argonaut V message from TenTec
Message-ID: <3.0.6.32.20021113113854.00ab57b0@pop.gulftel.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Hi all,

I have been following this thread with some interest. Not that I have

ordered the new rig nor plan to, but from the standpoint of a business decision. I wonder why TT would follow the suggestion of 80% of those responding to their poll if it removes 20% of the market? I presume they do want their new product to reach as many QRPers as possible, and to more-or-less eliminate 1/5 of their market at the design stage doesn't sound like something the sharpest tack in the box would do.

I also note that no one has mentioned that there are circuits in the rig that require the higher voltage. So why not lower the operating voltage to 10.5v? What would it have hurt to do that? Sounds like a no-brainer to me. Increase the potential market by 25% with little or no additional production cost or design effort.

Just my \$0.02. For whatever that is worth, hi!

Also, has anyone measured the current drain on the new rig at 5w out? If I understand correctly, the current drain is optimized for the designed max power out, and running at less than that reduces efficiency considerably. As an example, my K1 (designed for 5w) draws about 560 mA on transmit at 2w, while my SW40+ (which was designed for 2w) draws about 260 mA for the same pwr out, source (12.6v SLA), and load (50 ohm dummy). As the Argo is designed for 20w, sounds like the QRP power drain may be considerable.

73,
Dave
AB9CA

At 12:19 AM 11/14/02 -0600, Ade Weiss W0RSP wrote:

>Hi all:

>

>This thread is discouraging. TenTec says it solicited input from QRP'rs, and then

>produced a rig on the basis of that input. I believe them.

>

>I applaud them for doing their homework. I'm wondering how many of the >critics in this thread responded to the TenTec request for input?

>

>TenTec, remember, risked its entry into the ham radio market by producing >the first -- and one of the best, for a long time -- QRP transceivers. That >was a really "looney" decision. But the reason a lot of us are here right now >is that TenTec validated QRP when no one else either cared or thought >it was anything more than, as Doug DeMaw used to say, "a lunatic >fringe".

>

>TenTec put bucks behind the QRP cause. And it has remained true

>to that original daring commitment.
>
>Dave Fifield can correct me on this, but wasn't there a similar thread
>about the "Red Hot Radio" when he introduced it? "Why red?"
>the thread ran.
>
>Of course, everyone has a constitutional right to demand the exact kind
>of toy he/she wants. But it is immature to moan and groan when he/she
>doesn't get it.
>
>Again, I applaud TenTec in its renewed risk in the QRP market.
>
>
> 72, Ade W0RSP
>
>
>

Date: Wed, 13 Nov 2002 17:14:19 +0000
From: k7gt@attbi.com
To: qrp-l@lehigh.edu
Subject: [140033] OT(somewhat): Callsign confusion reigns at starting gun in SS/CW
Message-ID: <20021113171426.0ASN6356.rwcrmhc52.attbi.com@rwcrwbc70>

Greetings all from No Calif. The sun is out, the flood waters subsided, and
no tornados this week.

I have a funny story to tell from back in SS a few weeks ago. I had signed on as
a QRP Bull with the intent of providing some fun for the QRP gang. The
conventional
wisdom is to start high and work low, especially if trying to CQ/run with class A
or Q.
I thought I would start around the QRP frequency on 10m thinking to pick up a few
easy Qs, CQing there as many would be looking for my call. I began a contact with
V01A0E (I believe) and found K6GT calling him also. George, K6GT, is in nearby
SCV and we have collided before. We went back and forth, confusion reigned, and
finally I sent NIL and walked away from a Q from a rare section. My first
successful Q
was with N9GUN. In the madness following I had another busted Q before I finally
got a
rhythm going. Later on in the contest we worked WP3R (I believe) back to back. He
must
have been a great op as he didn't skip a beat...

OK, now the rest of the story. I recently joined the No Calif Contest Club (NCCC)
and

went to their meeting this past Monday evening. A great group (QRO types, of course) and I enjoyed their company very much. While there, I had a chance to recap the events at the beginning of SS with George, K6GT. He hadn't been aware of the QRP Bull/ Running of the Bulls thing and basically stumbled into the situation. He also did a major QSY and the contact was lost for both of us.

I didn't end up working very many of the QRP gang but did CQ alot for class Q. Of the 202 Qs, a total of 54 were from my CQing efforts. Also my meager score (26664) is the highest I have seen posted yet for EB section / Q class on 3830. Who knows? I might take EB with my puny effort!

Swan song time. I have had a great time playing with QRP but find I am fundamentally a QRO kinda guy. Recently I sold most of my QRP stuff to raise funds for some station enhancements and to give the gear a loving home. I will still do occasional field QRP contests (I love QRPTTF) and if someone wants to work at copying my signal I am always willing to crank down the power upon request. Look for me as K6TTX next year in class U.

BTW: my K2 is nominally for sale or trade. I will post it separately.

Allan K7GT

Pleasanton CA

Date: Wed, 13 Nov 2002 11:43:29 -0600
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-l@lehigh.edu>
Subject: [140034] Four State QRP Group Wednesday Warble
Message-ID: <000b01c28b3c\$2d5d8f00\$e915b9cc@Host>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Hello QRP'ers:

Tonight, the Four State QRP group will be having our weekly Wednesday Warble at 9 PM central time on 3580.5 KHz using PSK-31. You are cordially invited to stop by and say howdy.

This is an informal roundtable chat session. 80 meter propagation is in great shape this time of the year. We've had some reception reports from as far away as California.

72, Dave

David Bixler W0CH
Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site: <http://w0ch.com>
Four State QRP Group: <http://w0ch.com/fsqrp>

Date: Wed, 13 Nov 2002 08:22:49 -0800
From: Mark Danner <MarkD@mfwl.org>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@lehigh.edu>
Subject: [140035] RE: Code Improvements
Message-ID: <572DBC2398CED211809C006008155124D285AE@POSTMASTER>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"

John, you might want to check out the iambic document at
<http://www.morsecode.dutch.nl/variousindex.html> . This is a pretty cool web
site for cw ops.

73,

Mark
AB7MP

-----Original Message-----
From: JLeroy@automationdirect.com [mailto:JLeroy@automationdirect.com]
Sent: Wednesday, November 13, 2002 6:55 AM
To: Low Power Amateur Radio Discussion
Subject: Code Improvements

Hello list,

George's posting brought to mind the fact that I too need to get my code
speed back up after a fairly long time off the air. But along with that, I
would like to master the use of an iambic keyer. I learned to send code with

a straight key, then a bug. I've always used an iambic key, but use it as though it were a bug. What's the best way to make the switch?

73,

John W4JKL

Date: Wed, 13 Nov 2002 12:05:39 -0600 (CST)
From: bob evinger <wd9eka@evinger.com>
To: Patrick Gardella <pgardella@yahoo.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140036] Re: QRP Definition - Input vs Output?
Message-ID: <Pine.LNX.4.33.0211131203520.15916-100000@aprs>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

That would be 10 watts input to the final amplifier stage of your transmitter. In 'da old days that was how it was measured.

A relative 41 year young old timer thats been hamming 25 years.
bob

On Wed, 13 Nov 2002, Patrick Gardella wrote:

> I've always worked under the definition of QRP as less than 5 watts at the transmitter. But when
> I was reading the ARRL Operating Manual, it says, for their awards, that QRP is defined as 5 watts
> output or 10 watts input. Input to what?
>
> 73,
> Patrick N3EO
>
> -----
> Do you Yahoo!?
> U2 on LAUNCH - Exclusive greatest hits videos
> <http://launch.yahoo.com/u2>
>

--
Bob Evinger WD9EKA/AAR5MG(Army MARS operator)
If Guns Cause Crime, Then Matches Cause Arson.

Date: Wed, 13 Nov 2002 09:39:02 -0500
From: W2AGN <w2agn@w2agn.net>
To: pgardella@yahoo.com,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140037] Re: QRP Definition - Input vs Output?
Message-ID: <3DD21DB6.25141.47C8224@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 13 Nov 2002 at 5:56, Patrick Gardella wrote:

> I've always worked under the definition of QRP as less than 5 watts at the
transmitter. But when
> I was reading the ARRL Operating Manual, it says, for their awards,
that QRP is defined as 5 watts
> output or 10 watts input. Input to what?
>
> 73,
> Patrick N3EO

Back in the "olden days" transmitters were rated by the Power Input to
the final tube(s). For example, if you were running 1000V on the plate,
at 200 milliamperes, your input would be 200 watts. Output depended on
efficiency. With the advent of easily built instruments to measure power
OUTPUT, it became the method used.

That's why, in the olden days, we had "Ohm's Law," but that's another
story.

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 11:33:46 -0500
From: "Jim Kortge, K8IQY" <jokortge@prodigy.net>
To: richard_johnson@credence.com
Cc: qrp-l@lehigh.edu
Subject: [140038] Re: Power Meter
Message-ID: <5.1.0.14.1.20021113112755.00a79b70@pop.prodigy.yahoo.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 07:36 AM 11/13/02 -0800, you wrote:

>Group:

>

>I need to measure ac power. That is i need a power reading AC meter.

>I have heard the HP 400EL AC analog meter is good (10Hz to 10MHz)

>The use is building and testing HF equipment.

The HP 400EL is not a power reading meter, it is an RMS voltmeter that can measure across the frequency range you specified. It has a log scale, so reads out in dB directly on its main scale, and in RMS volts on its secondary scale.

The counterpart to this voltmeter is the HP 3400A, whose primary calibration is a linear RMS scale, with dB as the secondary scale. Both meters are handy to have, and low cost usually.

>The cost range for the HP 400EL, that i have found, is \$75 to \$275.

\$75 is the absolute highest I'd pay for one of the above, with \$25 to \$50 being more in line with the prices that I paid for mine. Certainly \$275 is way too much IMHO.

>Any constructive comments please.

See above. GL with you acquisition.

72,

Jim, K8IQY

Date: Wed, 13 Nov 2002 11:33:30 -0500 (EST)
From: <igeq100@iupui.edu>
To: JLeroy@automationdirect.com
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [140039] Re: Code Improvements
Message-ID: <Pine.GS0.3.96.1021113111946.1792B-1000000@jade.iupui.edu>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi, John -

Let me say at the outset (to the group) that these are my opinions, and that this is a hobby. There - the disclaimer is up front.

First of all, when you say that you use the iambic key as if it were a bug, do you mean that you make the individual dashes by hand (as some keyers allow), or do you just mean that you use the dual paddles in the "non-squeeze" mode for characters like "C"? If you use the "non-squeeze key" mode, you are almost there and may not gain much from learning how to do fully iambic keying. Here is my reasoning: there is very little to be gained in speed or reduction in effort by using the iambic method, especially at the speeds that most amateurs use day-to-day. The iambic mode of keying requires you to develop an additional set of motor skills beyond that necessary for the non-iambic mode (for example, you now need to decide (perhaps unconsciously) which paddle to press first, how soon to let go of the other one, etc.) Certainly these extra skills can be learned, as may will attest, and the fastest operators use them. But will they help you?

Another point: If you like to switch back and forth between using paddles and a bug, there is less to "unlearn" periodically if the two sets of pathways in your mind are not significantly different.

Let me repeat - I have no criticism of anyone using telegraph sending instruments in any way that produces good, copyable, CW. We do it for enjoyment, satisfaction, or whatever. Just my two cents.

72/73,

Rich, WB9LPU

On Wed, 13 Nov 2002 JLeroy@automationdirect.com wrote:

> Hello list,
>
> George's posting brought to mind the fact that I too need to get my code
> speed back up after a fairly long time off the air. But along with that, I
> would like to master the use of an iambic keyer. I learned to send code with
> a straight key, then a bug. I've always used an iambic key, but use it as
> though it were a bug. What's the best way to make the switch?
>
> 73,
>
> John W4JKL
>
>
>

Date: Wed, 13 Nov 2002 13:12:17 -0500
From: "Richard Brummer, K2JQ" <k2jq@rcn.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [140040] Re: San Jose this weekend
Message-ID: <00ae01c28b40\$338f6ac0\$6501a8c0@cable.rcn.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Brad,

I can think of worse places in which to be "stuck." Of course, if you're by yourself, without your wife or your family, that might be another story.

Wish I were in your predicament, considering wet and cool southeast NY right now.

73

Dick K2JQ

----- Original Message -----

From: <n8yg@rochester.rr.com>

To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>

Sent: Wednesday, November 13, 2002 6:25 AM

Subject: San Jose this weekend

> Any ham activities in San Jose this weekend?
> It seems I will be stuck here one way or the other.
> 73 Brad N8YG
>

Date: Wed, 13 Nov 2002 18:08:30 -0000
From: "Leon Heller" <leon_heller@hotmail.com>
To: <WD8CIV@worldnet.att.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [140041] Re: tiny micros need tiny I/O
Message-ID: <DAV72LqJrfP6nmGq3MS000051f1@hotmail.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

----- Original Message -----

From: "David Hinerman" <WD8CIV@worldnet.att.net>

To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>

Sent: Wednesday, November 13, 2002 5:04 PM

Subject: tiny micros need tiny I/O

> Folks,

>

> With all the PIC, Atmel, and other microcontroller projects that have
> appeared in ham radio over the past few years, I thought this Idea for
> Design from Electronic Design magazine might come in handy.

>

> It's a way of connecting a 16-key (4 x 4) keypad to a micro using only one
> input pin. A small oscillator's high and low times are determined by the
> key that is pressed, and the micro measures the duration of each to
> determine row & column.

Another useful technique is to use one or more 74HC595 shift registers, to
expand three pins to any number of outputs.

73, Leon

--

Leon Heller, G1HSM

leon_heller@hotmail.com

http://www.geocities.com/leon_heller

Date: Wed, 13 Nov 2002 11:38:13 -0600

From: "KD5NWA" <KD5NWA@mbayona.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [140042] RE: TS-830S Radio

Message-ID: <ODEHLGCFKOMOKMFFMBCL0EBKCCAA.KD5NWA@MBayona.com>

MIME-Version: 1.0

Content-Type: text/plain;

charset="iso-8859-1"

Content-Transfer-Encoding: 7bit

Thanks to all on the many replies, everyone agrees that it has an excellent
receiver, and that you can run the transmitter at less than a watt, and not
to switch bands while transmitting (duh). Unfortunately I had to let it go,
I was informed last Monday that everyone on our plant is being laid off for
six weeks, so I need to save every dollar I can get. I did listen to the
radio and I was impressed, after I informed him that I could not buy it at
this time, another ham offered \$450.00 and it was gone. Too bad, I seriously
dought I'm going to find another one loaded like it for that price. On a

good front, I moved to a house in the country, and the noise went from a constant S9 or greater to the point that last Saturday you could not tell the difference between having the antenna on or off as far as noise was concerned on 40 meters, boy was the bands quiet last Saturday!

Cecil
KD5NWA

> -----Original Message-----

> From: sjolin@swbell.net [mailto:sjolin@swbell.net]
> Sent: Wednesday, November 06, 2002 2:17 PM
> To: KD5NWA@mbayona.com; Low Power Amateur Radio Discussion
> Subject: Re: TS-830S Radio

>

>

> ----- Original Message -----

> From: "KD5NWA" <KD5NWA@mbayona.com>
> To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
> Sent: Wednesday, November 06, 2002 1:18 PM
> Subject: TS-830S Radio

>

>

> > I have a opportunity to buy a Kenwood TS-830S radio with
> matching external
> > VFO and fully loaded with all the filters for \$350.00. The radio is in
> good
> > condition, but I'm not familiar with it, I have heard that even though
> it's
> > a fairly old radio it's receiver is excellent even by today's standards
> (no
> > DSP). What do you guys/gals think of this radio, is it a good radio for
> the
> > shack or should I just save my money for something newer? Also
> it has tube
> > finals, so how low can you crank down the power?

>

> Cecil, the TS-830S has one of the best receivers Ive ever owned.
> It has long
> been a favorite of testers and low band Dxers who need to be concerned
> about strong signal handling capabilities.

>

> 73 de Dave, N0IT

>

>

Date: Wed, 13 Nov 2002 13:20:59 -0500
From: hamjoel@juno.com
To: qrp-l@lehigh.edu
Subject: [140043] quarterly
Message-ID: <20021113.132221.-321551.0.hamjoel@juno.com>
MIME-Version: 1.0
Content-Type: text/plain
Content-Transfer-Encoding: 7bit

Now don't forgets... to got u self in the right mood fer all dat
technical stuffs....
TURN FIRST TO DAT DISPLACED CAJUN LAD AND SET UR MIND IN ORDER...

JUST A FRIENDLY REMINDER

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Date: Tue, 12 Nov 2002 22:45:59 -0800
From: Dan Presley <talljazz@teleport.com>
To: qrp-l@lehigh.edu
Cc: n1fn@MorseX.com
Subject: [140044] Fox: revised log N7CQR
Message-ID: <p0501042fb9f65cce81c6@[216.26.4.216]>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

This should do it-A lot of typos-that's what I get for transcribing at 1AM!

UTC	Call	Rst	SPC	Name	Pwr
0200	KB7WW	599	OR	Art	5W
0202	VE6EX	559	AB	Dan	5W
0202	AA7Y	599	UT	Steve	5W
0203	WB7AEI	599	WA	Phil	5W
0204	N1FN	559	CO	ET	5W
0205	VA6RF	599	AB	Earl	5W
0206	K0FRp	579	CO	Al	5W
0207	N0UR	599	MI	Jim	5W
0208	W9UQB/7	559	AZ	Mike	5W

0208	KG6CYN	559	CA	Trev	2W
0210	K6MMC	559	CA	Mike	5W
0213	WA7TQK	559	ID	Bill	5W
0213	W5YR	559	TX	George	5W
0214	NQ7X	559	AZ	Floyd	5W
0215	N0DSP	559	CO	Tom	5W
0215	K8HJ	559	MI	John	5W
0222	K5SR	559	TX	Dale	5W
0223	K5DW	559	TX	D0c	5W
0225	N4ROA	559	VA	Dan	5W
0225	W0CH	559	MO	Dave	5W
0227	N2WW	559	CO	Larry	5W
0228	W9XR	559	WI	Spence	5W
0230	KI0II	559	Co	Ron	1W
0231	AC5JH	559	OK	TOM	5W
0231	AK7Y	559	AZ	Greg	5W
0232	NK6A	599	CA	Don	5W
0233	K3IU	559	RI	KEN	5W
0233	W5USJ	559	TX	Chuck	5W
0234	W0RSP	569	SD	Ade	4W
0236	VE6JAZ	559	AB	Rob	5W
0237	W6AZ	559	CA	Ron	5W
0239	AC7A	559	AZ	Tom	5W
0240	KK5LD	559	TX	Dan	5W
0241	N9NE	559	WI	Todd	5W
0246	K5DI	559	NM	Karl	5W
0250	N0TU	559	CO	Ron	5W
0251	K5EAD	559	LA	Wayne	5W
0251	K5JHP	559	TX	BILL	5W
0254	AJ4AY	559	AL	Jay	5W
0258	N0WK	539	MN	Mike	5W
0303	AB5XQ	559	AR	Bill	5W
0304	K4GT	559	GA	Jim	5W
0305	AK7D	559	OR	Fred	500 mW
0310	KQ5U	559	TX	TERRY	5W
0311	KR0U	559	CO	Tim	5W
0312	AA7EQ	559	AZ	Bob	5W
0318	K5TR	559	TX	George	5W
0319	N0SG	559	CO	Jason	5W
0320	K9DC	559	IN	Dave	5W
0323	K6IFF	579	CA	Bill	10W
0324	K0PC	599	MN	Pat	5W
0325	NM5M	559	TX	Eric	5W
0326	VE5DC	559	SK	JERRY	1W
0327	AD6JY	559	CA	DAN	5W
0328	WA9TZE	559	WI	Jim	5W
0330	W9XU	559	WI	Lon	5W
0333	N5WL	559	OK	Bart	5W

0335	AF4LQ	559	KY	Mike	5W
0336	W0PWE	559	IA	Jerry	5W
0337	N9AW	559	WI	Jerry	5W
0338	WE9K	559	WI	Glenn	5W
0339	K40AH	559	GA	Garey	5W
0340	K5FSE	599	GA	Jack	5W
0341	NK9G	559	WI	Rick	5W
0342	KJ0C	549	MO	Jim	5W
0344	K4TJD	559	GA	Tom	5W
0346	AB9CA	559	AL	Dave	5W
0349	N1TP	339	FL	Tom	5W
0352	N5ZE	559	TX	Lew	5W
0353	K4ADI	339	SC	Frank	5W
0355	W8YMO	559	OH	Harry	5W
0358	WA8BXN	599	OH	Mike	5W
0359	K4FB	449	FL	Paul	5W
0400	N7CQR	559	OR	FOX	5W
0400	WD7Z	559	NM	Fox	5W

--

Dan Presley
talljazz@teleport.com
(503) 232-8244
pager (503) 229-8682

Date: Wed, 13 Nov 2002 13:23:25 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [140045] Re: grouchy? you aint seen nothin
Message-ID: <3DD2524D.23837.68EC7@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 12 Nov 2002 at 15:35, Walter Amos wrote:

> SHADES OF W20Y
>

My Hero!

+++++ John L. Sielke
|W||2||A||G||N| http://www.w2agn.net [UPDATED]
+++++ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 12:41:25 -0600
From: "David Bixler" <qrp@netins.net>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [140046] Four State QRP Group Meeting on Saturday
Message-ID: <000001c28b44\$45e3f700\$e915b9cc@Host>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Greetings QRP'ers:

The November luncheon get-together of the Four State QRP Group will be this coming Saturday, November 16th.

The Four State QRP Group is an informal group of QRP'ers in the area near where the states of Missouri, Kansas, Oklahoma and Arkansas meet.

Come have lunch and visit with the other area QRP'ers. No agenda, no rules, just fun!

Location: Barney's Kitchen (restaurant) in the south end of Seneca, Missouri. This is about 20 miles south of Joplin, right on the Oklahoma state line.

Date: Saturday, Nov. 16th

Time: 11:00 AM till ???

Bring parts to swap, a QRP rig, project, book, magazine, QSL cards, etc. for show and tell. Will be interesting to hear what everyone is doing lately.

After lunch, if the weather is too cool for outdoor on-the-air fun, we may adjourn to another nearby building for some solder melting.

More info and driving instructions is at:
<http://w0ch.com/fsqrp/index.htm>

If you get lost, We'll have an HT monitoring 146.52 simplex.

72 and hope to see you there....

Dave

David Bixler W0CH

Seneca, Missouri

QRP: Little radios, Big Fun!

QRP Web Site: <http://w0ch.com>

Four State QRP Group: <http://w0ch.com/fsqrp>

Date: Wed, 13 Nov 2002 13:14:00 -0600
From: "Jim NOUR" <n0ur@attbi.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [140047] FOX; Tomorrow
Message-ID: <000701c28b48\$d2e00c80\$6a202942@ce1.client2.attbi.com>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

In the spirit of the term "hunt," all I am going to tell you is that I will be on. I have contacted the other fox as to who will go high and low on the band. You are on your own as far as my call (don't look at the header of this message) my exchange and frequency. I may even start out running 1 watt, depending on band condx, to even make it a little more interesting.

Happy hunting, good luck. Hope the propagation gods are smiling

Date: Wed, 13 Nov 2002 13:58:07 -0500
From: "Charles Mabbott" <aa8vs@msn.com>
To: qrp-l@lehigh.edu
Subject: [140048] Code Improvements - Responce
Message-ID: <F574CJiHQNE0afeJ0u70000005c4@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

John,
Best source of information for your question is Chuck Adams.
<http://www.qsl.net/k7qo/sending.html>

This is his tutorial on sending with an Iambic key.

73 oo

Chuck AA8VS

"Whoever said the pen is mightier than the sword obviously never encountered automatic weapons."

<http://68.43.100.7:81/aa8vs>

>From: JLeroy@automationdirect.com
>Reply-To: JLeroy@automationdirect.com
>To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
>Subject: Code Improvements
>Date: Wed, 13 Nov 2002 09:54:57 -0500
>
>Hello list,
>
>George's posting brought to mind the fact that I too need to get my code
>speed back up after a fairly long time off the air. But along with that, I
>would like to master the use of an iambic keyer. I learned to send code
>with
>a straight key, then a bug. I've always used an iambic key, but use it as
>though it were a bug. What's the best way to make the switch?
>
>73,
>
>John W4JKL

Add photos to your messages with MSN 8. Get 2 months FREE*.
<http://join.msn.com/?page=features/featuredemail>

Date: Wed, 13 Nov 2002 14:09:55 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <leon_heller@hotmail.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140049] Re: tiny micros need tiny I/O
Message-ID: <009501c28b48\$41bce5c0\$0300a8c0@charter.net>

MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

There's been a number of '1-wire' keyboard interfaces over the years in magazines. I remember one from about 6 or 7 years ago that used caps.

Mike

Date: Wed, 13 Nov 2002 13:45:55 -0500
From: W2AGN <w2agn@w2agn.net>
To: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140050] Re: Argonaut V message from TenTec
Message-ID: <3DD25793.22824.1B299B@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

I was good, and waited 2 hours before responding to Ade's message, rather than exploding right away! ; -)

> >
> >TenTec, remember, risked its entry into the ham radio market by producing
> >the first -- and one of the best, for a long time -- QRP transceivers. That
> >was a really "looney" decision. But the reason a lot of us are here right now
> >is that TenTec validated QRP when no one else either cared or thought
> >it was anything more than, as Doug DeMaw used to say, "a lunatic
> >fringe".

But it was a profitable decision, allowing Ten tec to diversify into not only QRO Ham gear, but equipment for Military and Commercial use.
> >
> >TenTec put bucks behind the QRP cause. And it has remained true
> >to that original daring commitment.

Because it WAS PROFITABLE. When a piece of equipment was no longer a money maker, it was dropped. Let's not give Ten Tec any false altruistic motives here.

> >
> >Of course, everyone has a constitutional right to demand the exact kind
> >of toy he/she wants. But it is immature to moan and groan when he/she
> >doesn't get it.

I don't think it is immature to bring up failings, or disadvantages of a newly introduced piece of equipment. When one is paying \$750+, one has some right to at least make suggestions.

> >
> >Again, I applaud TenTec in its renewed risk in the QRP market.

I agree. I like the little 516, but I am disappointed in certain things about it. Is Ten Tec to be worshiped by QRPers to the extent that no negative comments are allowed?

> >
> >
> > 72, Ade W0RSP

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 14:04:49 -0500
From: "Mike Yetsko" <myetsko@insydesw.com>
To: <pgardella@yahoo.com>,
"Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [140051] Re: QRP Definition - Input vs Output?
Message-ID: <005d01c28b47\$a654a820\$0300a8c0@charter.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

> I've always worked under the definition of QRP as less than 5 watts at the transmitter. But when
> I was reading the ARRL Operating Manual, it says, for their awards, that QRP is defined as 5 watts
> output or 10 watts input. Input to what?
>
> 73,
> Patrick N3EO

Output is obvious, it's output power. For 'input' it means TOTAL input power. That's a holdover from tube days, where you measure not only the plate current times voltage for the power, but you also have to ADD any drive power. You don't count filament power.

When they say 'input power', it then means ALL power input to the final stage of amplification, but not counting 'filament power'.

Mike

Date: Wed, 13 Nov 2002 11:44:02 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-l@lehigh.edu>
Subject: [140052] Distinguished Visitor from the East will be in San Jose Saturday.
Message-ID: <006601c28b4d\$078e3ca0\$4a0b0d0a@dph.dpol.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, I am in the process of setting up a lunch for Brad Mitchell, the co developer of the TiCK keyer and a whole bunch of other stuff. We are going to meet this Saturday at noon at Armadillo Willies at 2071 Camden Ave. Dave Fifield will be posting directions. We'll do a QRP get together, eat some great barbecue and have fun. Email me if you can attend. 72, Doug, KI6DS

Date: Wed, 13 Nov 2002 15:00:37 -0500
From: "George Heron N2APB" <n2apb@erols.com>
To: "QRP-L" <qrp-l@lehigh.edu>
Cc: "NJQRP" <njqrp@njqrp.org>
Subject: [140053] Re: tiny micros need tiny I/O
Message-ID: <000601c28b4f\$5eaf76f0\$ceca9cce@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Yet another sensible approach is to have a small microcontroller serve as an I²C serial interface between the keypad and main controller for the

project. A PIC or Ubicom SX-18 micro can be even smaller than a shift register chip(s), and you could also hang other IIC devices on the resultant 2-wire serial bus over to the main controller. Heck, you could even add other I/O devices on the PIC and have it all accesible over that same IIC bus.

Reference my "I/O Expander" project described in MikeC's Idea Exchange column in the current QRP Quarterly (when it hits the mailboxes this week).

73, George N2APB
n2apb@amsat.org

=====

> It's a way of connecting a 16-key (4 x 4) keypad to a micro using only one
> input pin. A small oscillator's high and low times are determiend by the
> key that is pressed, and the micro measures the duration of each to
> determine row & column.

Another useful technique is to use one or more 74HC595 shift registers, to expand three pins to any number of outputs.

73, Leon

Date: Wed, 13 Nov 2002 15:12:41 -0500 (EST)
From: Chris Cartwright <ccart@phideaux.com>
To: QRPL List <qrp-l@lehigh.edu>
Subject: [140054] No excuses TX... hmmm
Message-ID: <Pine.LNX.4.33.0211131415210.24829-100000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Being on vacation I've had some time to pick at this thing. I built it up on a "proto-board", one of those things you just push that parts into. So I know I've got stray capacitance all over the place. That being said, how can you get 2-3 watts out of two 2N2222A's?

I'm showing about 16V into a 47 ohm load (hey, it was handy) on the scope, but when I put it on the WM-1 it's only showing about 40-50mW. What am I missing here? The 16V I'm seeing on the scope is close to 7Mhz, and a clean sine wave. I'd be happy for 500 to 1000mW out of this thing, but I'm gonna have to see it on my WM-1 to believe it :)

I'm using PN2222A's instead of 2N4400's, I subbed a 9uH choke for L2, and

at C5/6 I've tried 220 and 330pF caps. It's using a 7.040 xtal from Norcal. With no load on the oscillator I get a fairly clean 10Vp-p sine wave, once I tie it to the buffer, it drops to about 1.2Vp-p (key up) and looks like the Rocky Mountains, must be full of harmonics. And don't run this thing without a load, I burned up almost 20 cents worth (two sets!) of "finals" so far. <snicker>

I'm using one of those resistor looking chokes at L2 and dropping about 1V across it. Think I'll wind a toroid and see what happens. Even if this thing is a dismal failure, I'm learnin' "stuff" and it beat putting time in at the salt mine !!

72

```
-- Chris Cartwright,   Unix Administrator |      ccart@phideaux.com      --
-- N3XRV      ARRL-VE   Norcal Zombie #163 |      Oxford, PA 19363 FM29as   --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
```

Date: Wed, 13 Nov 2002 15:10:33 -0500
From: Garey Barrell <k4oah@mindspring.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140055] Re: QRP Definition - Input vs Output?
Message-ID: <5.1.0.14.0.20021113150915.00a20bc0@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 02:04 PM 11/13/2002, Mike Yetzko wrote:

```
> > I've always worked under the definition of QRP as less than 5 watts at
> the transmitter. But when
> > I was reading the ARRL Operating Manual, it says, for their awards, that
> QRP is defined as 5 watts
> > output or 10 watts input. Input to what?
> >
> > 73,
> > Patrick N3EO
>
> Output is obvious, it's output power. For 'input' it means TOTAL
> input power. That's a holdover from tube days, where you measure
> not only the plate current times voltage for the power, but you also
> have to ADD any drive power. You don't count filament power.
>
> When they say 'input power', it then means ALL power input to the
> final stage of amplification, but not counting 'filament power'.
>
```

>Mike

Mike -

Actually your definition of Input power applies only to grounded grid stages where most of the input power is passed through to the output.

Grounded cathode (emitter) stages are measured by Plate (collector) input power only, or plate voltage times plate current.

73, Garey - K40AH
Atlanta

Date: Wed, 13 Nov 2002 15:49:07 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [140056] Re: No excuses TX... hmmm
Message-ID: <5.1.1.6.1.20021113154405.00a6aaf0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 03:12 PM 11/13/2002 -0500, you wrote:

>I'm showing about 16V into a 47 ohm load (hey, it was handy) on the scope,
>but when I put it on the WM-1 it's only showing about 40-50mW. What am I
>missing here? The 16V I'm seeing on the scope is close to 7Mhz, and a
>clean sine wave. I'd be happy for 500 to 1000mW out of this thing, but
>I'm gonna have to see it on my WM-1 to believe it :)

Chris,

Are you sure the load resistor is connected? Is it a x1 or x10 scope probe?

One of my many bosses over the years used to remind me that when a test gives an unexpected answer, one of three things is at fault:

- 1) The unit under test.
- 2) The test equipment.
- 3) The operator.

As far as I can tell, the odds are dead even that it can be any one of the three, and could even be more than one.

Dave

A Real Programmer can write FORTRAN in any language.

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Wed, 13 Nov 2002 15:29:45 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [140057] Re: tiny micros need tiny I/O
Message-ID: <5.1.1.6.1.20021113152804.00a72a10@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

George,

I've been contemplating a mini-terminal (display & keypad) that used a serial link to provide a re-usable "console" for PIC projects that needed it. I had neglected the I2C port, though. That's a great idea!

Dave

At 03:00 PM 11/13/2002 -0500, you wrote:

>Yet another sensible approach is to have a small microcontroller serve as an
>I²C serial interface between the keypad and main controller for the
>project. A PIC or Ubicom SX-18 micro can be even smaller than a shift
>register chip(s), and you could also hang other IIC devices on the resultant
>2-wire serial bus over to the main controller. Heck, you could even add
>other I/O devices on the PIC and have it all accesible over that same IIC
>bus.

>
>Reference my "I/O Expander" project described in MikeC's Idea Exchange
>column in the current QRP Quarterly (when it hits the mailboxes this week).

>
>73, George N2APB
> n2apb@amsat.org
>

>=====

> > It's a way of connecting a 16-key (4 x 4) keypad to a micro using only one
> > input pin. A small oscillator's high and low times are determiend by the
> > key that is pressed, and the micro measures the duration of each to
> > determine row & column.

>

>Another useful technique is to use one or more 74HC595 shift registers, to
>expand three pins to any number of outputs.

>

>73, Leon

A Real Programmer can write FORTRAN in any language.

Dave Hinerman

WD8CIV@worldnet.att.net

Date: Wed, 13 Nov 2002 14:12:10 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: "Karl F. Larsen" <k5di@zianet.com>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140058] Re: OT Linux Sendmail
Message-ID: <Pine.BSI.3.96.1021113141140.20781B-1000000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Who cares? None of this stuff you've been posting has anything to
do with QRP.

On Mon, 11 Nov 2002, Karl F. Larsen wrote:

>

>

> Hi Chris, yours at least is cute. His is really gross with so many items
> with his name. I'm on my old linux (Red Hat version 72) and the
> signature on this msg will be an old one...:-)

>

> I may jump version 7.3 from version 8.0 I was just using. This version I
> got almost everything working. As I set up later versions things stopped
> working...very strange.

>

>

> On Mon, 11 Nov 2002, Chris Trask wrote:

>

> >

> > Karl,

> > Maybe he works for a large company. According to your earlier

> > posts concerning hams and patents, if he works for a large company he

> > should be entitled to a signature of more than one line. :{)
> >
> > Chris
> >
> > On Sun, 10 Nov 2002, Karl F. Larsen wrote:
> >
> > > On Sun, 10 Nov 2002, Thom LaCosta wrote:
> > >
> > > > On Sun, 10 Nov 2002, John J. McDonough wrote:
> > > >
> > > > > Lee
> > > > >
> > > > > I think it's pretty topical. A lot of folks on this list are playing
with
> > > > > Linux or thinking of playing with Linux.
> > > >
> > > > That's a pretty slippery slope...just because folks on the list are
> > > > playing with Linux doesn't mean we all need to read about it...don't help
> > > > me with my K2 rig.
> > >
> > > Two ideas Thom. Please simplify your signature to less than one
> > > line like mine. And sell your K2 and get a better radio.
> > >
> > > I suspect your really pissed at the FOX thread too?
> > >
> > >
> > > >
> > > > Kinda like the the HTML thread, or the ear wax thread.
> > > >
> > > >
> > > > Thom
> > > >
> > > > baltimoremd@baltimoremd.com Thom LaCosta K3HRN Webmaster
> > > > http://www.baltimoremd.com/ Baltimore's Home Page
> > > > http://www.baltimorehon.com/ Home of the Baltimore Lexicon
> > > > http://www.zerobeat.net Home of The QRP Web Ring and
DrakeList
> > > > http://www.tlchost.net Web Hosting as low as \$3.49/month
> > > >
> > > >
> > >
> > > --
> > >
> > > - Karl Larsen k5di Las Cruces,NM Az ScQRPions -
> > >
> >
> > ,-----.
> > / What's all this \ High Performance Mixers and
Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

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Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Wed, 13 Nov 2002 14:10:53 -0700 (MST)
From: Chris Trask <ctrask@primenet.com>
To: W2AGN <w2agn@w2agn.net>
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140059] Re: OT Linux Sendmail
Message-ID: <Pine.BSI.3.96.1021113141012.20781A-100000@usr02.primenet.com>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hey! I have a friend who describes himself as a professional village idiot, and he might be insulted by that. :{)

Chris

On Mon, 11 Nov 2002, W2AGN wrote:

```
> On 11 Nov 2002 at 9:37, Thom LaCosta wrote:
>
> > On Sun, 10 Nov 2002, Karl F. Larsen wrote:
> >
> > >
> > > Two ideas Thom. Please simplify your signature to less than one
> > > line like mine.
> >
> > You're hysterical Karl...you can't even count. Your signature line is
> one
> > line...so no one can make their like yours and be less than one line.
> > I'll be happy to arrange for you to audit one of the remedial math
> classes
> > I teach.
> >
> > Thom
>
> Every village has its idiot, I guess Karl is the QRP-L village's answer
> to that.
>
> ---
> +---+---+---+---+ John L. Sielke
> |W||2||A||G||N| http://www.w2agn.net [UPDATED]
> +---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS
>
```

,----- . High Performance Mixers and


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```

Amplifiers for RF Communications

Chris Trask / N7ZWY
Principal Engineer
Sonoran Radio Research
P.O. Box 25240
Tempe, Arizona 85285-5240

IEEE Member #40274515

Email: ctrask@primenet.com
<http://www.primenet.com/~ctrask>

Graphics by Loek Frederiks

Date: Wed, 13 Nov 2002 16:14:28 -0500
From: "Brice D. Hornback" <bdh@cyberbound.net>
To: <n2apb@erols.com>,
"Low Power Amateur Radio Discussion" <grp-l@lehigh.edu>
Subject: [140060] Re: tiny micros need tiny I/O
Message-ID: <001d01c28b59\$a71ad920\$57c809c0@win98test>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Check out the PAK-VI from Al Williams, WD5GNR.

<http://www.al-williams.com/pak6.htm>

It allows you to connect a PS2 keyboard (or mouse!) to a microcontroller. Here's a link to a Morse Code keyer using a PAK-VI!
<http://www.al-williams.com/pak6app.pdf>

Al has many of these PAKs for use with microcontrollers and LOTS of projects online. I've used them with BASIC Stamps to add additional I/O, keyboard, etc. Here's a link to his home page:
<http://www.wd5gnr.com/>

Here's a direct link to the microcontroller projects:
<http://www.al-williams.com/awce>

Just a VERY satisfied customer...
73/72/71! de Brice KA8MAV

----- Original Message -----

From: "George Heron N2APB" <n2apb@erols.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, November 13, 2002 3:00 PM
Subject: Re: tiny micros need tiny I/O

> Yet another sensible approach is to have a small microcontroller serve as
an
> I²C serial interface between the keypad and main controller for the
> project. A PIC or Ubicom SX-18 micro can be even smaller than a shift
> register chip(s), and you could also hang other IIC devices on the
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> 2-wire serial bus over to the main controller. Heck, you could even add
> other I/O devices on the PIC and have it all accesible over that same IIC
> bus.
>
> Reference my "I/O Expander" project described in MikeC's Idea Exchange
> column in the current QRP Quarterly (when it hits the mailboxes this
week).
>
> 73, George N2APB
> n2apb@amsat.org
>
> =====
> > It's a way of connecting a 16-key (4 x 4) keypad to a micro using only
one
> > input pin. A small oscillator's high and low times are determiend by the
> > key that is pressed, and the micro measures the duration of each to
> > determine row & column.
>
> Another useful technique is to use one or more 74HC595 shift registers, to
> expand three pins to any number of outputs.
>
> 73, Leon
>
>
>

Date: Wed, 13 Nov 2002 15:32:10 -0600
From: sjolin@swbell.net

To: k5di@zianet.com,
Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [140061] Re: Solar Blues
Message-ID: <025701c28b5c\$1fdaf2d0\$78d1fea9@DaveSjolin>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

----- Original Message -----

From: "Karl F. Larsen" <k5di@zianet.com>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Wednesday, November 13, 2002 10:31 AM
Subject: Solar Blues

> Today the flux is going down, the A index is going up to about
> 20 and the k index will top at 5. We will be lucky to hear any fox in
> New Mexico. The D layer absorbtion will be large.

You're a day early Karl. Its bad enough we need to hear you b*tch after the hunt if you cant find them foxes, now you have to start early. Get rid of that ear wax and maybe the propagation wouldnt be such a problem for you.

Date: Wed, 13 Nov 2002 16:42:04 -0500 (EST)
From: Chris Cartwright <ccart@phideaux.com>
To: QRPL List <qrp-1@lehigh.edu>
Subject: [140062] Re: No excuses TX... hmmm
Message-ID: <Pine.LNX.4.33.0211131614590.24829-1000000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

On Wed, 13 Nov 2002, David Hinerman wrote:

> Are you sure the load resistor is connected? Is it a x1 or x10 scope
> probe?

Having just burnt my finger on the 1/2W load resistor, I'm sure it's connected :) But your advice is well taken, I just checked the WM-1 on the IC-735, looks ok. Checked the scope against it's internal calibrator, and a 12v battery, so far so good. And yes, I am using a 10x probe, and on .2V/div setting I'm getting about 8 "divs" or 16Vpp. Thought for a while I should go back and reread NA5N's primer :)

This thing is drawing about 40mA at idle, (osc and buffer running) and

150-200mA key down, depending on the choke I use. I'm seeing about 28Vpp on the input of the filter and about 15vpp on the output using the scope. Either place the watt meter sees about 100mW. I'm using the scope probe to connect to the WM-1, but I set the probe to x1 for that, and remove the load resistor, since there is a dummy load on the meter.

Now if it uses about 100mA for the final, at 12V, and has a 50% efficiency, I should see about 600mW, right? Even at 25-30% I should see 300mW or so. I have to say that I *don't* believe you can get 2W out of a pair of 2N2222's, but I'm sure going to try to prove myself wrong! I'm going to re-re-re-read the article again, but I don't think he says in there how output power was measured. It's not April is it? <grin>

```
-- Chris Cartwright,   Unix Administrator |      ccart@phideaux.com      --
-- N3XRV      ARRL-VE   Norcal Zombie #163 |      Oxford, PA 19363 FM29as   --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --
```

Date: Wed, 13 Nov 2002 16:54:34 -0500
From: "Russ Hines" <wb8zcc@one.net>
To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [140063] Re: QRP Definition - Input vs Output?
Message-ID: <014001c28b5f\$40fb7310\$4307c00a@wb8zcc1>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Nope, the reference "input power" is just the DC input power to the final amplifier...plate or collector voltage times plate or collector current. It doesn't matter what the drive power is, or whether it's a grounded grid, grounded cathode, etc.

W2AGN had the best answer thus far.

73,
Russ Hines
WB8ZCC

----- Original Message -----
From: "Mike Yetsko" <myetsko@insydesw.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Wednesday, November 13, 2002 2:04 PM

Subject: Re: QRP Definition - Input vs Output?

> > I've always worked under the definition of QRP as less than 5 watts at
> the transmitter. But when
> > I was reading the ARRL Operating Manual, it says, for their awards, that
> QRP is defined as 5 watts
> > output or 10 watts input. Input to what?
> >
> > 73,
> > Patrick N3EO
>
> Output is obvious, it's output power. For 'input' it means TOTAL
> input power. That's a holdover from tube days, where you measure
> not only the plate current times voltage for the power, but you also
> have to ADD any drive power. You don't count filament power.
>
> When they say 'input power', it then means ALL power input to the
> final stage of amplification, but not counting 'filament power'.
>
> Mike
>
>

Date: Wed, 13 Nov 2002 16:09:31 -0500
From: Tom Feeny <tfeeny@comcast.net>
To: *QRP-L <qrp-l@lehigh.edu>
Subject: [140064] Re: grouchy? you aint seen nothin
Message-ID: <000c01c28b58\$f805ae60\$865d2044@waldlk01.mi.comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=Windows-1252
Content-transfer-encoding: 7BIT

> SHADES OF W20Y

No lids, no kids, no space cadets.
First class operators only. ;)

Date: Wed, 13 Nov 2002 17:29:29 -0500

From: W2AGN <w2agn@w2agn.net>
To: wb8zcc@one.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140065] Re: QRP Definition - Input vs Output?
Message-ID: <3DD28BF9.7830.E7EB30@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 13 Nov 2002 at 16:54, Russ Hines wrote:

> Nope, the reference "input power" is just the DC input power to the final
> amplifier...plate or collector voltage times plate or collector current. It
> doesn't matter what the drive power is, or whether it's a grounded
grid,
> grounded cathode, etc.
>
> W2AGN had the best answer thus far.
>
> 73,
> Russ Hines
> WB8ZCC

I thank you for the kind words, but the statement about including drive when using a grounded grid amp is true. I remember that from the old days, and my HB 4-1000A amp. To be legal, you had to include drive power, in determining what was then "1 KW max DC Input." With 6200V on the plate, I had to watch it. (Nope, I wasn't ALWAYS QRP!).

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| http://www.w2agn.net [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 15:23:12 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: sjolin@swbell.net
Cc: Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140066] Re: Solar Blues
Message-ID: <Pine.LNX.4.44.0211131520580.2733-1000000@Bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Well your half as tired as I am answering your complaints about what I wrote to the list. If you dislike what I say please delete the

message! Don't send one like this to clutter the list even more.

On Wed, 13 Nov 2002 sjolin@swbell.net wrote:

```
> ----- Original Message -----
> From: "Karl F. Larsen" <k5di@zianet.com>
> To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> Sent: Wednesday, November 13, 2002 10:31 AM
> Subject: Solar Blues
>
>
> > Today the flux is going down, the A index is going up to about
> > 20 and the k index will top at 5. We will be lucky to hear any fox in
> > New Mexico. The D layer absorbtion will be large.
>
> You're a day early Karl. Its bad enough we need to hear you b*tch after the
> hunt if you cant find them foxes, now you have to start early. Get rid of
> that ear wax and maybe the propagation wouldnt be such a problem for you.
>
>
>
--
```

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

```
-----
Date: Wed, 13 Nov 2002 17:38:50 -0500
From: "Fancher, Mark (GEAE)" <Mark.Fancher@ae.ge.com>
To: "'Low Power Amateur Radio Discussion'" <qrp-1@lehigh.edu>
Subject: [140067] Neat Article About HF Email
Message-ID: <F9351DA9F0F6D41187410090277B3EB307D30AAA@ev008msxaege.ae.ge.com>
MIME-Version: 1.0
Content-Type: text/plain;
        charset="iso-8859-1"
```

<http://www.linuxjournal.com/article.php?sid=6299>

```
-----
Date: Wed, 13 Nov 2002 17:28:38 -0500
From: W2AGN <w2agn@w2agn.net>
To: sjolin@swbell.net,
        Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [140068] Re: Solar Blues
```

Message-ID: <3DD28BC6.10846.E72461@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 13 Nov 2002 at 15:32, sjolin@swbell.net wrote:

>
> > Today the flux is going down, the A index is going up to about
> > 20 and the k index will top at 5. We will be lucky to hear any fox in
> > New Mexico. The D layer absorbtion will be large.
>
> You're a day early Karl. Its bad enough we need to hear you b*tch after
the
> hunt if you cant find them foxes, now you have to start early. Get rid
of
> that ear wax and maybe the propagation wouldnt be such a problem for
you.
>
>
>

Hey, whine early, avoid the rush. I guess there's not much chance of Karl
going and joining the QRP-Whiners list I set up, is there?

Looks like the foxes should be a "chip shot" from here. I may try working
them with the old HT-18/S53A combo....you'll know if I have a wee mite of
chirp.

+---+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 15:36:25 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: Jim N0UR <n0ur@attbi.com>
Cc: Low Power Amateur Radio Discussion <qrp-1@lehigh.edu>
Subject: [140069] Re: FOX; Tomorrow
Message-ID: <Pine.LNX.4.44.0211131533210.2753-100000@Bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

Hi Jim, I suspect if you cut the power down to 1 watt you can still work the close in stations fine. People like me 1000+ miles away will hear nothing and leave you alone. I will concentrate on Paul who I hope will run 6DB more power than you are...:-)

On Wed, 13 Nov 2002, Jim NOUR wrote:

> In the spirit of the term "hunt," all I am going to tell you is that I will
> be on. I have contacted the other fox as to who will go high and low on the
> band. You are on your own as far as my call (don't look at the header of
> this message) my exchange and frequency. I may even start out running 1
> watt, depending on band condx, to even make it a little more interesting.
>
> Happy hunting, good luck. Hope the propagation gods are smiling
>
>

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Wed, 13 Nov 2002 16:50:24 -0500
From: Steven Weber <kd1jv@moose.ncia.net>
To: qrp-l@lehigh.edu
Subject: [140070] HB: Antenna Analyzer bridge
Message-ID: <3.0.6.32.20021113165024.007b9670@mailhost.ncia.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"

Some time ago, I built a little HF Antenna Analyzer bridge. It worked pretty good, but since it used an L/C oscillator, it took a whole band of switched coils to cover the bands. Plus, it needed an air variable to give it any kind of decent tuning range.

Well, now that I discovered the R/C oscillator in the 74HC4046, which can be voltage tuned from DC up to 20 or 30 Mhz, depending on who made the chip, I replaced the L/C oscillator with a 74HC4046. It's not exceptionally stable, but it actually compairs pretty favorably with the L/C version and in this application, good stability isn't all that important. What is important, is it tunes 1 to 21 Mhz (with the Fairchild HC4046 it's got in there now), with the turn of a pot. Of course, you need a frequency counter to know where it's tuned to :-)

Anyway, if you need a way to determine resonance of your antennas or a QRM free way of tuning up your antenna tuner, and don't want to pay an arm and a leg for a MFJ jobbie, this simple circuit might do it for you.

<http://www.qsl.net/kd1jv/r1b.HTM>

72,

Steve, KD1JV

"Melt Solder"

White Mountains of New Hampshire

<http://www.qsl.net/kd1jv/>

Date: Wed, 13 Nov 2002 18:03:47 -0500

From: Garey Barrell <k4oah@mindspring.com>

To: "Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>

Subject: [140071] Re: QRP Definition - Input vs Output?

Message-ID: <5.1.0.14.0.20021113175552.00a23c40@pop.mindspring.com>

Mime-Version: 1.0

Content-Type: text/plain; charset="us-ascii"; format=flowed

The "feedthrough power" requirement appeared in the FCC rules when G-G Linears became popular, and then disappeared when the shift to "output" power measurement became economically feasible.

Just to further confuse the situation, "most" commercial (and homebrew) transmitters actually measured cathode current to keep that HV off the front panel meter. So these meters actually measured the algebraic sum of the plate, screen (if any), and grid currents. Those of us who ran Globe Chiefs and DX-40s didn't worry too much about it!

73, Garey - K40AH

Atlanta

At 05:29 PM 11/13/2002, W2AGN wrote:

>On 13 Nov 2002 at 16:54, Russ Hines wrote:

>

> > Nope, the reference "input power" is just the DC input power to the final

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> current. It

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> days, and my HB 4-1000A amp. To be legal, you had to include drive power,
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>
> ---
> +---+---+---+---+ John L. Sielke
> |W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
> +---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 17:31:14 -0500
From: W2AGN <w2agn@w2agn.net>
To: tfeeny@comcast.net,
Low Power Amateur Radio Discussion <qrp-l@lehigh.edu>
Subject: [140072] Re: grouchy? you aint seen nothin
Message-ID: <3DD28C62.21548.E985F8@localhost>
MIME-version: 1.0
Content-type: text/plain; charset=US-ASCII
Content-transfer-encoding: 7BIT
Content-description: Mail message body

On 13 Nov 2002 at 16:09, Tom Feeny wrote:

>
>
> > SHADES OF W20Y
>
> No lids, no kids, no space cadets.
> First class operators only. ;)
>
>
>

Yep, old Mike would be turning over in his grave now. He sure wasn't
"politically correct."

> +---+---+---+---+ John L. Sielke
> |W||2||A||G||N| <http://www.w2agn.net> [UPDATED]

+---+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Wed, 13 Nov 2002 16:28:13 -0700
From: Brian Kassel <K7RE@arrl.net>
To: QRP-L <QRP-L@lehigh.edu>, Jim Lageson <n0ur@yahoo.com>,
Todd Fonstad <tfonstad@vbe.com>
Subject: [140073] Contest: FD Congrats to N0UR!
Message-ID: <3DD2E00D.9429B912@arrl.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

Folks:

Just got my December issue of QST, and saw the results in the highly
contested 1B-10P category. The winner is Jim N0UR, great score. I
managed a NR 3 in the same category as Jim. Great job, well done, Jim!

Brian K7RE

End of QRP-L Digest 2739
